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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/838,759 04/19/2001		Lance W. Russell	10003536-1	1330
7590 11/01/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			KLIMACH, PAULA W	
Intellectual Pro	perty Administration		ART UNIT	PAPER NUMBER
	O 80527-2400		2135	

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			A! N1 -	A 1: 4/-)				
		Applica	ition No.	Applicant(s)				
		09/838	,759	RUSSELL ET AL.				
	Office Action Summary	Examin	er	Art Unit				
			V. Klimach	2135				
Period fo	The MAILING DATE of this commun	nication appears on t	the cover sheet w	vith the correspondence add	dress			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE PROVISION SIX (6) MONTHS from the mailing date of this come in the provision of period for reply is specified above, the maximum some to reply within the set or extended period for reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF sof 37 CFR 1.136(a). In no munication. statutory period will apply and y will, by statute, cause the a	THIS COMMUNI event, however, may a I will expire SIX (6) MO application to become A	ICATION. reply be timely filed NTHS from the mailing date of this co. BANDONED (35 U.S.C. § 133).				
Status								
1)[🖂	Responsive to communication(s) fil	ed on 18 August 20	<u>05</u> .					
,	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition	n for allowance exce	pt for formal mat	tters, prosecution as to the	merits is			
	closed in accordance with the prac	tice under <i>Ex parte</i> (Q <i>uayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
Disposit	ion of Claims							
4) 🖾	☑ Claim(s) <u>1-16</u> is/are pending in the application.							
	4a) Of the above claim(s) is/	are withdrawn from	consideration.					
5)[🛛	Claim(s) 4-7,9-12 and 14-16 is/are	allowed.						
6)⊠	Claim(s) 1-3, 8 and 13 is/are reject	ed.						
7) Claim(s) is/are objected to.								
8)	Claim(s) are subject to restr	iction and/or election	n requirement.					
Applicat	ion Papers			- North State Control of the Control				
· 9) 🗀	The specification is objected to by t	he Examiner.		<u> </u>				
10)	The drawing(s) filed on is/are	e: a) accepted or	b) objected to	by the Examiner.				
	Applicant may not request that any obj	ection to the drawing(s	s) be held in abeya	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	g the correction is req	uired if the drawin	g(s) is objected to. See 37 CF	FR 1.121(d).			
11)	The oath or declaration is objected	to by the Examiner.	Note the attache	ed Office Action or form PT	O-152.			
Priority (under 35 U.S.C. § 119							
а)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internations See the attached detailed Office actions	y documents have b y documents have b s of the priority docu onal Bureau (PCT F	een received. een received in ments have bee Rule 17.2(a)).	Application No n received in this National	Stage			
Attachmer 1) \(\sum \) Notic 2) \(\sum \) Notic 3) \(\sum \) Infor		(PTO-948)	4) Interview Paper No 5) Notice of 6) Other:	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTC	D-152)			
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DETAILED ACTION

An Appeal Conference was formed and conferee agreed that although Brundrett discloses the encrypted block list, which corresponds to the directory data, Brundrett does not disclose storing the encrypted directory in the security object, the finality of the office action 05/06/05 is now withdrawn.

In view of the appeal brief filed on 08/18/05, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Moore (6,678,700) in view of Moskowitz (20020071556 A1) and Kaplan (IBM Cryptolopes, SuperDistribution and Digital Rights Management).

In reference to claims 1 and 13, Moore et al (6,678,700) discloses a method of receiving at the meta-data server an open-file request that is created by the application (distributed file interface coupled to the client; column 6 lines 36-45), the open-file request specifying a name of a first file, wherein the first file includes a first set of blocks (column 6 lines 13-45 in combination with column 18 lines 23-28). The request for the resource would include the name of the file (Fig. 7 part 40). During the creation of the Meta data creation of normal objects is used to put data objects into a container at the SRB server (meta data server) (column 18 lines 37-46), thus creating an object in response to the open-file request. Moore discloses writing the data to the copy then updating the container. This is the function of transmitting the object to the file interface because the client and the server have the same copy of the information on the file interface.

However Moore does not disclose generating an encryption key at the meta-data server and the storage server.

Moskowitz et al teaches the generation of partial keys at different entities (page 3 paragraph 0023). The first key creator creates the first part of the key and corresponds to the meta-data server and the second key creator creates the second part of the key and corresponds to the storage server (page 2 paragraph 0015).

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use partial keys created at different servers as in the system of Moskowitz and adding the keys to the data portion of the object in the system of Moore, thus creating a security object. One of ordinary skill in the art would have been motivated to do this because sharing the secret between more devices increases the amount of security since both values are required fore decrypting the message.

Moore and Moskowitz do not disclose adding the generated keys and the block list to the security object.

The system of the Kaplan discloses a system for digital rights management that comprises a distributed file system (Fig on page 6). The system adds the block list, which corresponds to the lists of parts, to the security object (Bill of Materials page 5 paragraph 3). The security object is transmitted to a distributed file interface (paragraph 3 page 6).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to store the key of Moskowitz and the list in the security object, Cryptolope, of Kaplan within the network of Moore. One of ordinary skill in the art would have been motivated to do this because it would protect content and track its usage, and to fairly and efficiently distribute royalties and licensing fees (SuperDistribution of Cryptolopes to the rescue... page 1). The list of Kaplan is not encrypted, however at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to encrypt the list of parts for the cryptolope. One of ordinary skill in the art would have been motivated to do this because it adds more security to the authentication of the information for a cryptolope, since only the person with the key would be able to encrypt the system so that authentic key users can decrypt the list and

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therefore authenticate the contents; and further the cryptolope is encrypted therefore it is just one more level of encryption.

Claims 2-3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore, Moskowitz, and Kaplan as applied to claim 1 above, and further in view of Brundrett et al. (6,249,866).

In reference to claim 2, Moore discloses transmitting a file access request and security object from the distributed file system interface to the storage server in response to a file access request from a client application (column 6 lines 36-48), the file access request including an operation code and a reference to selected data of a file (column 19 lines 33-39);

Moore and Moskowitz do not disclose decrypting the block list at the storage server in response to the file access request; providing access to the selected data in accordance with the operation code upon successful decryption of the block list.

Brundrett discloses decrypting the text for the NTFS in response from a request from an application and thereby providing access to the selected data upon successful decryption (column 17 lines 6-34).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to decrypt the file as in Brundrett in the system of Moore. One of ordinary skill in the art would have been motivated to do this because decryption makes the encrypted data available to the user.

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In reference to claims 3, 8, Brundrett further discloses encrypting file data at the distributed file interface for file write operations using the encryption key in the security object; and decrypting file data at the distributed file interface for file read operations using the encryption key in the security object (Fig. 17 and Fig. 20).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to encrypt the file as in Brundrett and adding the encrypted information to the data portion of the object in the system of Moore. One of ordinary skill in the art would have been motivated to do this because encryption secures the information.

Allowable Subject Matter

Claims 4-7, and 9-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14-16 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK Monday, October 31, 2005

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